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1. COUNTRY: France	8. REPORT NUMBER: 5 316 0159 74 (6700-00)
2. SUBJECT: (U) Second Triennial Exhibition on the Exploitation of the Oceans (OCEANEXPO 74)	9. DATE OF REPORT: 25 November 1974
3. ISC NUMBER: <i>WES</i> <i>Chrono</i>	10. NO. OF PAGES: 11
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5. PLACE AND DATE OF ACQ: Bordeaux, France 1-6 October 1974	12. ORIGINATOR: <i>f</i>
6. EVALUATION: SOURCE <u>B</u> INFORMATION <u>2</u>	13. PREPARED BY: <i>25X1 DIA</i>
7. SOURCE: P0 at Exhibition	14. APPROVING: <i>25X1 DIA</i>

15. SUMMARY:

1. (S/NF) An extensive exhibition of oceanographic products and services were shown at OCEANEXPO 74, Du Lac, Bordeaux, France, 1-6 October 1974. This exhibition was held in conjunction with a technical conference directed towards pollution control and exploiting the oceans for industrial purposes. In association with this exhibition a conference and exhibition on Fishing and Fishery equipage was held at the same time and place. The exhibition was moderately well attended although few new and novel developments were displayed.

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1. (C) The Second Triennial International Exhibition of the Exploitation of the Oceans and Technical Offshore Techniques was held at Du Lac, Bordeaux, France, pavilion, 1-6 October 1974 in connection with the conference referred to in reference (c). The list of exhibitors is shown in enclosure (1). In addition to the enclosures that forward technical brochures and data concerning the products exhibited, a photographic log is attached. The photographs included refer to the negatives which are attached to reference (c), as this is one of four reports concerned with the conference, exhibition and ship visits to Bordeaux during the first week of October 1974.

2. (S/NF) Among the exhibits at Du Lac of interest were those from the French Governmental activities, see enclosures (6) through (10) and (17) through (21).

16. DISTRIBUTION BY ORIGINATOR:
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17. DOWNGRADING DATA: 25X1DIA

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18. ATTACHMENT DATA:
131 ENCLOSURES (U)
1. thru 20. (U) Listed on page 3
21. thru 47. (U) Listed on page 4
48. thru 77. (U) Listed on page 5
78. thru 101. (U) Listed on page 6
102. thru 126. (U) Listed on page 7
127. thru 130. (U) Listed on page 8
131. (U) 46 photographs
ENCL (130) NOT SPEC'D

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Certain of these developments have been observed elsewhere such as the ERIC devices but they have been refined and developed to become better adapted to the offshore problems. The SERCEL exhibits on navigational position determination, enclosures (36) through (44) are noteworthy. The COMEX brochures describe the equipment on display and contains a copy of the speech delivered by M. Henri Delaaze, President of the company, concerning the recent deep dive program activities of COMEX. Enclosure (62) presents an interesting source of energy for remote stations in the Aerowatt windmill generators. Aerowatt is reputed to be one of the very few companies in existence around the world that produces equipment of this character.

3. (S/NF) Although reference (f) is not directly applicable to this conference, enclosures (107) through (111) together with photographs #1-31 and #1-32 provide information directly relating to the requirements laid down for data on Banubian rivercraft.

4. (S/NF) The information made available by enclosures (118) through (124) provide additional material on Polish shipbuilding. This data has been supplemented with photographs of the models on display at the Polish booth.

5. (C/NF) Basically only three companies featured diving equipment other than that shown by COMEX and listed in its brochure. These companies were Cavalero, enclosures (52) and (53), Fenzy, enclosure (56), and Poseidon, enclosure (129). To augment these brochures, photographs #1-11 through #1-19 are concerned with COMEX equipment; photograph #3-24 and #3-25 for Fenzy are forwarded.

Discussion:

1. (S/NF) The exhibition was interesting being one of the few featuring predominantly French industrial equipment. However, all exhibits filled less than half of the space available in the building assigned. The crowds were disappointing and little in the way of commercial business was seen being transacted. Many of the prominent European companies engaged in oceanographic operations and sales were conspicuous by their absence. At the Offshore Structures Conference in London a week later, I asked a noted German engineer why his company had not gone to Bordeaux. His reply was they had exhibited at the First Bordeaux exhibition and had been made to feel so unwanted by the French they refused to return and he added many of his colleagues felt likewise. Even so, several companies from France that had not shown their products elsewhere were in attendance and their brochures are included among those forwarded for review. The consensus of delegates who attended the First exhibition three years ago and this one was that the Second was rather pallid compared with the First. It remains to be seen if the sponsors will attempt a third in 1977.

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Enclosures to Second Triennial International Exhibition and Conference:

1. SECOND TRIENNIAL INTERNATIONAL EXHIBITION AND CONFERENCE ON THE EXPLOITATION OF THE OCEAN AND INDUSTRIAL OFFSHORE TECHNIQUES & TRIENNIAL FISHING EXPOSITION OFFICIAL CATALOGUE, French-English, 106 pages.
2. Centre National Pour l'Explotation des Oceans, Paris, France booklet 1974, French-English, 44 pages.
3. Centre National De La Recherche Scientifique, Paris, France, "L'Oceanographie Au CNRS:Perspectives," French, 16 pages.
4. Centre de Recherche Geophysiques, Pouilly's/Loire, France, "Etude DuClanys Electrique Cree Par La Houle," CRG/GA/MTM 1 July 1974, French, 6 pages.
5. Institut Francais Du Petrole, "Techniques For Offshore Petroleum Prospection Drilling and Production," English, 90 pages.
6. Centre D'Etude et de Recherches Techniques Sous-Marines, Direction des Constructions et Armes Navale de Toulon, "System ERIC," French, 2 pages.
7. Centre D'Etude et de Recherches Techniques Sous-Marines, Direction des Constructions et Armes Navale de Toulon, "Sous-Marin 'GRIFFON'," French, 2 pages.
8. Centre D'Etude et de Recherches Techniques Sous-Marines, Direction des Constructions et Armes Navale de Toulon, "System 'PARC ERIC II'," French, 2 pages.
9. Centre D'Etude et de Recherches Techniques Sous-Marines, Direction des Constructions et Armes Navale de Toulon, "Sous-Marine D'Intervention," 2 pages, French.
10. Centre D'Etude et de Recherches Techniques Sous-Marines, Direction des Constructions et Armes Navale de Toulon, "Tourelle Immergeable," French, 2 pages.
11. Commissariat a L'Energie Atomique, Dept. des Radioelements, Gif sur Yvette, France, "Application of Radioactive Tracers to Sedimentology," English, 4 pages.
12. Commissariat a L'Energie Atomique, Dept. des Radioelements, Gif, sur Yvetts, France, "Gamma Density Meter for Pumped Sediment, type DG-3," English, 2 pages.
13. Commissariat a L'Energie Atomique, Dept. des Radioelements, Gif sur Yvette, France, "Determination od Settling Laws of Suspensions," English, 2 pages.
14. Commissariat a L'Energie Atomique, Dept. des Radioelements, Gif sur Yvette, France, Turbidity Measurements by Gamma Absorption," English, 2 pages.
15. Commissariat a L'Energie Atomique, Dept. Des Radioelements, Gif sur Yvette, France, "Analyseur optique d'oxygen," French, 1 page.
16. Commissariat a L'Energie Atomique, Dept. des Radioelements, Gif sur Yvette, France, "Master Slave Manipulators," French-English, 10 pages.
17. Direction Technique des Constructions Navales, Paris, France, "SAMAHÉ," French-English, 8 pages.
18. Direction Technique des Constructions Navales, Paris, France, "Magnetometer Carrier Vehicles," French-English, 1 page.
19. Direction Technique des Constructions Navales, Groupe d'Etudes Sous-Marines de l'Atlantique, Brest, France, "Bathyvelocimeter," French-English, 1 page.
20. Direction Technique des Constructions Navales, Paris, France, "Ultrasonic Release System," French-English, 1 page.

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21. Direction Technique des Constructions Navales, Paris, France, "Immersed Object Search Sonar," French-English, 1 page. (Leave Blank)

22. Direction Technique des Constructions Navales, Paris, France, "Sea Bottom Exploration Vehicle, PAP 104," French-English, 1 page.

23. Electricite de France, Direction des Etudes et Recherches Laboratoire National D'Hydraulique, Chaton, France, "Canal d'Etude de l'action des elements houlevent-courant," French, 16 pages.

24. L'Establishment Principal du Service Hydrographique et Oceanographique de la Marine brochure, French, 4 pages.

25. Soc.de Fabrication d'Instruments de Mesure, Massy, France, "Systems D'Acquisition et de Traitement Automatique des Donnees," French, 16 pages.

26. Suber SA, Ste-Anne du Fortzic, France, pricelist dated 1 July 1974, French, 5 pgs.

27. Ateliers et Chantiers de Bretagne, Nates, France brochures, French-English, 52 pgs.

28. Ateliers mecaniques de Saint-Gaudens, Valentine, France, "AMG 37-43 marine seismic streamer," English, 4 pages.

29. Bureau de Recherches Geologie et Minieres, Paris, France, "geologie marine," French, 8 pages.

30. Coultronics France SA, Andilly, France brochures, French, 8 pages.

31. Gamma Service, Grenoble, France, "localisation d'equipments perdus en mer," French-English, 4 pages.

32. Geomecanique, Rueil, France, "SOL-110-S," English, 4 pages.

33. Geoceanic, Paris, France Catalog, French-English, 36 pages.

34. Navigair, Nanterre, France, "SOUDER enregistreur type BIG CATCHER 103," French, 2 pages.

35. SAFARE, Nice, France, brochure, French-English, 24 pages.

36. SERCEL, Nantes, France, "SYLEDIS," French, 4 pages.

37. SERCEL, Nantes, France, "OMEGA RR, FX, 2.A," French, 4 pages.

38. SERCEL, Nantes, France, "TORAN CHAINE P10," French, 8 pages.

39. SERCEL, Nantes, France, "TORAN CHAINE P100," French, 8 pages.

40. SERCEL, Nantes, France, "TORAN," French, 16 pages.

41. SERCEL, Nantes, France, "TORAN RECEPTEUR MOBILE," French, 4 pages.

42. SERCEL, Nantes, France, "TORAN TRACK PLOTTER T6," English, 4 pages.

43. SERCEL, Nantes, France, "TORAN LEFT/RIGHT PLOTTER," English, 4 pages.

44. SERCEL, Nantes, France, "MICROPROGRAMMED PROCESSOR UNIT," English, 2 pages.

45. Serres, Aixen, Provence, France, "DCO METRE," French, 2 pages.

46. Serres, Aixen, Provence, France, "COLORIMETER," French, 32 pages.

47. Serres, Aixen, Provence, France, "D.B.U.R. TYPE FG 545," French, 32 pages.

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48. Serres, Aixen, Provence, France, "ECOLYSEUR," French, 14 pages.

49. Serres, Aixen, Provence, France, "TURBIDIMETRE," French, 20 pages.

50. Serres, Aixen, Provence, France, "TILTABLE PLATE SEPARATOR," French, 4 pages.

51. SESEM, Villeneuve-St. Georges, France, "OCEANOLOGY," French-English, 9 pages.

52. ETS CAVALERO SA, MARSEILLE, France, "CAVALERO CHAMPION," French-English, 20 pages.

53. ETS CAVALERO SA, MARSEILLE, France, "BRUSH-BUOY," French, 4 pages.

54. COBRAS MAINTENANCE, Marseille, France brochure, English, 4 pages.

55. COMEX, Marseille, France brochures on equipment, French-English, 112 pages.

56. FENZY SA, Montreuil, Paris brochures, French, 20 pages.

57. IMASUB, Gluses, France, "Gamma pour Professionals," French, 10 pages.

58. PHOSMARIN EQUIPMENT, Marseille, France, "BRUSH-KART," English, 10 pages.

59. PHOSMARIN EQUIPMENT, Marseille, France, "MARINA-BRUSH," French-English, 4 pages.

60. STE. SEURI, Paris, France, "LIFEGUARD," French, 1 page.

61. J. ROUGERIE, Paris, France, "THALASSOPOLIS," French-English, 2 pages.

62. AEROWATT SA, Paris, France, "AEROGENETATEURS," French, 46 pages.

63. AEROSPATIALE, La Corneuve, France, "SUPER FRETON," English, 20 pages.

64. SEDAM, Paris, France, "NAVIPLANE N102," French-English, 2 pages.

65. SEDAM, Paris, France, "NAVIPLANE N300," French-English, 2 pages.

66. SEDAM, Paris, France, "NAVIPLANE N500T," French-English, 2 pages.

67. ASTEO, Paris, France, 4TH Edition Brochure, French-English, 132 pages.

68. LABORATORIE Central de Telecommunications, Vellzy, France, "L55 Buoy System," English, 2 pages.

69. BRISONNEAU & LOTS MARINE, Carquefou (Nantes), France, "OFFSHORE EQUIPMENT," English, 12 pages.

70. SEDEC, Paris, France, "genepipe," French-English, 6 pages.

71. SEDEC, Paris, France, "Station de Debit," French-English, 12 pages.

72. SUPERFLEXIT, Courbevoie, France, brochure, French-English, 90 pages.

73. PEINTURES H. LAPPARTIENT, Lorient, France, "Paint Guide," French-English, 32 pages.

74. Le Joint Francais, Bezons, France, "Joints Toriques Bagues R," French, 80 pages.

75. EGMO, Brest, France and ERJI, Marseille, France, "Free Equipments," French-English, 30 pages.

76. Soc. Nouvelle des Ateliers et Chantiers du Havre, Le Havre, France, brochures, French, 28 pages.

77. ENGINS MATRA, Dept. Offshore, Vellzy, France, "OFFSHORE," English, 6 pages.

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<p>78. ENGINS MATRA, Dept. Offshore, Vélizy, France, "Electro hydraulic control system for B.O.P." English, 22 pages.</p> <p>79. THOMPSON-CSF, Div. Telecommunications, Gennevilliers, France brochure, French-English, 40 pages.</p> <p>80. COMPAGNIE GENERAL d'AUTOMATISME, Paris, France summary, French, 21 pages.</p> <p>81. COMPAGNIE RADIO-MARITIME CRM, Paris, France, "DRAKKAR Radiotelephone," French, 8 pages.</p> <p>82. COMPAGNIE de SIGNAUX et d'ENTERPRISES ELECTRIQUES, PARIS, France, brochure, French, 18 pages.</p> <p>83. NEREIDES SA, Orsay, France, "Equipment List," French, 8 pages.</p> <p>84. CREUSOT-LOIRE METAL SERVICE, Bègles, France, "CREUSEL SO 38," French, 4 pages.</p> <p>85. PONT-A-MOUSSON SA, Nancy, France, "MARINE GEARBOXES," French-English-Deutsch-Spanish, 20 pages.</p> <p>86. RENAULT marine COUACH, Bignos, France, "la Gamme 1974," French, 4 pages.</p> <p>87. CERIA, Nantes, France, "Hydraulic Variable Speed Thruster Nozzle Type," French-English, 2 pages.</p> <p>88. GROSSOL, Levallois, France, "Diesels," French, 4 pages.</p> <p>89. PYROMECA, Toulon, France, "Les pyromécanismes," French, 8 pages.</p> <p>90. SOMEIER, Ruelle, France, "BAIE NAVALE STANDARDISEE," French, 2 pages.</p> <p>91. KRUPP-ATLAS-ELEKTRONIK BREMEN, Bremen, FRG, "RADAR ATLAS 4100/4300," English, 8 pages.</p> <p>92. KRUPP-ATLAS-ELEKTRONIK BREMEN, Bremen, FRG, "ATLAS-BOTTOM MAPPING RECORDER BOMA 20," English, 40 pages.</p> <p>93. KRUPP-ATLAS-ELEKTRONIK BREMEN, Bremen, FRG, "ATLAS ALPHA DOPPLER LOG, DOLOG 120," English, 28 pages.</p> <p>94. KRUPP-ATLAS-ELEKTRONIK BREMEN, Bremen, FRG, "ATLAS ALPHA DOPPLER NAVIGATOR," French, 50 pages.</p> <p>95. BOSTON INSULATED WIRE (UK) LTD., Kingston-upon-Thames, England, "Standard Hydrophone Cables," English, 34 pages.</p> <p>96. VALEPORT (DEVELOPMENT) LTD., Dartmouth, England, "Braystoke SelfAligning Current Meter," 2 pages.</p> <p>97. INTERNATIONAL HYDROGRAPHIC REVIEW, Vol. LI, No. 1, Jan. 1974 reprint, "The DECCA HI-FIX/6 Position Fixing System," C. Powell, 16 pages.</p> <p>98. "DECCA SURVEY ENTERS GEOPHYSICS," reprint from Decca Navigator News, April 1974, 4 pages.</p> <p>99. DECCA SURVEY LTD., Leatherhead, Surrey, England, "Marine Pipeline Routes," 28 pages.</p> <p>100. DECCA SURVEY FRANCE, Cagnes-sur-Mer, France brochure, French, 12 pages.</p> <p>101. DECCA SURVEY LTD., Leatherhead, England, "Decca Survey Catalogue AUTOCARTA S," 2 pages.</p>		(Leave Blank)

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102. THE DECCA NAVIGATOR CO. LTD., London, England, "DECCA AUTO-TRACKING MARINE LORAN C DL91," 6 pages.

103. THE DECCA NAVIGATOR CO. LTD., London, England, "GYRO OR COMBINED GYRO/MAGNETIC AUTOPILOT," 8 pages.

104. THE DECCA NAVIGATOR CO. LTD., London, England, "Navigator MK21," 20 pages.

105. THE DECCA NAVIGATOR CO. LTD., London, England, "Pilot 550," 12 pages.

106. THE DECCA NAVIGATOR CO. LTD., London, England, "An Informal Review of Shore Based Radio Position Fixing Systems," 16 pages.

107. CHANTIERS HONGROIS ET CONSTRUCTION NAVALES ET DE GRUES, Budapest, Hungary, "GRUES," French, 36 pages.

108. CHANTIERS HONGROIS ET CONSTRUCTION NAVALES ET DE GRUES, Budapest, Hungary, "GURE FLOTTANTE," French, 16 pages.

109. CHANTIERS HONGROIS ET CONSTRUCTION NAVALES ET DE GRUES, Budapest, Hungary, "LISTE de REFERENCES," French, 44 pages.

110. CHANTIERS HONGROIS ET CONSTRUCTION NAVALES ET DE GRUES, Budapest, Hungary, "2000 HP PUSHER-TUG et al," French-English, 20 pages.

111. CHANTIERS HONGROIS ET CONSTRUCTION NAVALES ET DE GRUES, Budapest, Hungary, "SHRIMP TRAWLER," English, 4 pages.

112. NIPPON STEEL CORP., Tokyo, Japan, "STEEL PRODUCTS," English, 204 pages.

113. NIPPON STEEL CORP., Tokyo, Japan, LABORATORY EXPERIMENTS ON WAVE AND CURRENT FORCES ACTING ON A FIXED PLATFORM," English, 20 pages.

114. NIPPON STEEL CORP., Tokyo, Japan, "FIELD EXPERIMENTS ON ANCHORING A LARGE-CAPACITY WINCH BARGE," English, 24 pages.

115. Plastic Industrie Twente bv, Almelo, Holland brochure, Dutch, 1 page.

116. De Regt, Capelle aan den IJssel, Netherlands, "Product Brief," English, 13 pages.

117. OLIVEIRA SA, Porto, Portugal leaflet on cables, Port-English, 4 pages.

118. CENTROMOR, Warsaw, Poland, "Industrie Navale Polonaise," French, 224 pages.

119. CENTROMOR, Warsaw, Poland, "Polish Ship's Equipment Guide," English, 148 pages.

120. CENTROMOR, Warsaw, Poland, "Shipbuilding Equipment Guide," English, 56 pages.

121. CENTROMOR, Warsaw, Poland, "Navires de Peche," French, 70 pages.

122. CENTROMOR, Warsaw, Poland, "Horizontal Double Plate Freezers," English, 4 pages.

123. CENTROMOR, Warsaw, Poland, "Double-Duct Supply Air-Conditioning Cabinets," English, 4 pages.

124. CENTROMOR, Warsaw, Poland, "Polish Shipbuilding Industry Report 1974," English, 70 pages.

125. BUDOWNICTWO OFRETOWE, Special Number 1974, "Polish Shipbuilding In the 30th Anniversary of the People's Republic of Poland," English, 110 pages.

126. GUASCOR SA, Bilbao, Spain, "Pegaso Motors," French, 14 pages.

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127. SIMRAD, Oslo, Norway, "SIMRAD SL SONAR," English, 2 pages.

128. HIAB-FOCO, Hudiksvall, Sweden, "HIAB au grand large," French, 24 pages.

129. POSEIDON INDUSTRI, Gothenberg, Sweden, "Poseidon System," English, 6 pages.

130. NOVOSTI Press Agency Publishing House, Moscow, USSR, 1973, "USSR Industry," English, 12 pages.

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<p>Photographic Log: All 3 1/2" x 5" black and white prints included on this log were made from negatives shown of the Photographic Log for IIR 5 316 0158 74 (6700-00).</p> <p>Camera: Minolta Hi-Matic F with f2.7 Rokkor 38mm lens. Film: Kodak TRI-X, ASA 400.</p> <p>1. 5 316 0158 74 #1-0 Centromor, Gdansk Okopowa 7, Poland Chalutier Type B425,450 TDW. See enclosure (121) for type m/t VIGRI whose brochures lists dimensions & technical details of this class.</p> <p>2. 5 316 0158 74 #1-1 Centromor, Gdansk Okopowa 7, Poland Thonier Senneur Type B-415,850 TDW Built at Gdansk Shipyard.</p> <p>3. 5 316 0158 74 #1-2 Centromor, Gdansk Okopowa 7, Poland Chalutier Type B-416, 220 TDW. Built at the Gdynia Shipyard.</p> <p>4. 5 316 0158 74 #1-3 Centromor, Gdansk Okopowa 7, Poland Chalutier Type B-423, 400 TDW. See enclosure (121) for m/t "Otter Bank" class. This brochure lists details and dimensions of the class of fishing boat.</p> <p>5. 5 316 0158 74 #1-4 Centromor, Gdansk Okopowa 7, Poland. Fishing Research Ship Type B-424. 1100 TDW, Starboard Side view. See photographs #1-5 and 1-6 for addi- tional details. Scale is 1:100.</p> <p>6. 5 316 0158 74 #1-5 Centromor, Gdansk Okopowa 7, Poland Fishing Research Ship Type B-424. Stern view, see photos #1-4 and 1-6 for additional details.</p> <p>7. 5 316 0158 74 #1-6 Centromor, Gdansk Okopowa 7, Poland Fishing Research Ship Type B-424 1100 TDW Placard. See photos #1-4 and 1-5 for additional details.</p> <p>8. 5 316 0158 74 #1-7 CENTROMOR, Gdansk Okopowa 7, Poland Placard for Hydrographic Survey Ship Type B-88, 1450 TDW. Additional de- tails may be seen in enclosure (118) type m/s "PORYV." and in photo #1-8.</p> <p>9. 5 316 0158 74 #1-8 Centromor, Gdansk Okopowa 7, Poland Hydrographic Survey Ship, Type B-88 See encl (118) m/s "PORKV" for details.</p> <p>10. 5 316 0158 74 #1-9 Centromor, Gdansk Okopowa 7, Poland Placard for Fishing Boat Type B-421, 1650 TDW. See photo #1-10 and encl (121) type m/t "VICTOR PLEVEN," for additional details of this class of factory ship.</p> <p>11. 5 316 0158 74 #1-10 Centromor, Gdansk Okopowa 7, Poland Starboard view of Fish Factory Ship, Type B-421. This class is built in the Gdynia Shipyard. Additional de- tails may be found on the pages for "VICTOR PLEVEN" class in encl (121).</p> <p>12. 5 316 0158 74 #1-11 COMEX Traverse de la Jarre, Marseille, France. 200 meter Diving Complex side view. See photos #1-12 and 1-13 for further details. This is not a new complex having been in service for several operations.</p> <p>13. 5 316 0158 74 #1-12 COMEX, Traverse de la Jarre, Marseille, France, 200 meter diving complex front view with placard. See photos #1-11 and 1-13 for additional details.</p> <p>14. 5 316 0158 74 #1-13 COMEX, Traverse de la Jarre, Marseille, France, 200 meter diving complex. Side view, see photos #1-11 and 1-12 for further details.</p> <p>15. 5 316 0158 74 #1-14 COMEX, Traverse de la Jarre, Marseille, France Submarine. "GLOBULE" port view. See photos 1-15 through 1-19 for other views and encl (55) for brochure. Operating depth listed as 200 meters.</p> <p>16. 5 316 0158 74 #1-15 COMEX, Traverse de la Jarre, Marseille, France. "GLOBULE" submarine. Frontal view. See photos #1-14 thru 1-19 for additional views and encl (55) for details.</p>		

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<p>17. 5 316 0158 74 #1-16 COMEX, Traverse de la Jarre, Marseille, France, "GLOBULE" sub. Stbd side view. See photos #1-14, 1-15, 1-16 thru 1-19 for additional info and encl (55) for technical details.</p> <p>18. 5 316 0158 74 #1-17 COMEX, Traverse de la Jarre, Marseille, France: "GLOBULE" sub. Front view. Additional views are seen in photos #1-14 thru 1-16 and 1-18 and 1-19. Encl (55) has technical details.</p> <p>19. 5 316 0158 74 #1-18 COMEX, Traverse de la Jarre, Marseille, France, "GLOBULE" sub. Details of stbd port. See other views of this craft in photos #1-14 thru 1-17 and 1-19. Enclosure (55) has technical details.</p> <p>20. 5 316 0158 74 #1-19 COMEX, Traverse de la Jarre, Marseille, France, "GLOBULE" sub. Forward port window. See photos #1-14 thru 1-18 for other views and encl (55) for technical details.</p> <p>21. 5 316 0158 74 #1-20 Kleber-Colombes, rue des Sablons, Paris, France. Net for Anti-pollution control.</p> <p>22. 5 316 0158 74 #1-21 SUPERFLEXIT, rue des Minimes, Courbevoie, France. "CAIMAN" a towable collapsible tank for the recovery of polluting liquid waste on water. See photos #1-22 and 1-23 and encl (72) for additional details.</p> <p>23. 5 316 0158 74 #1-22 SUPERFLEXIT, rue des Minimes, Courbevoie, France. Placard for "CAIMAN" device. See photos #1-21 and 1-23 and encl (55) for further information.</p> <p>24. 5 316 0158 74 #1-23 SUPERFLEXIT, rue des Minimes, Courbevoie, France. Second Placard of data concerning "CAIMAN" inflatable tank. See photos #1-22 and 1-23 together with article in encl (55) for further data.</p> <p>25. 5 316 0158 74 #1-24 Inst. Univ. de Biologie Marine, 33120 Arcachon, France, "VARAN 300", vehicle autonome de recherches benthiques. An underwater sled of the CURV principal for investigations.</p> <p>26. 5 316 0158 74 #1-25 DCAN, Cherbourg, France. Model of "LE REDOUBTABLE" SSN, showing the after section of the model. See photos #1-26 and 1-27 for additional information.</p> <p>27. 5 316 0158 74 #1-26 DCAN, Cherbourg, France. Model of "LE REDOUBTABLE" SSN, amidships section, stbd side. See photos #1-15 and 1-27 for additional information.</p> <p>28. 5 316 0158 74 #1-27 DCAN, Cherbourg, France. Model of "LE REDOUBTABLE" SSN: Bow section, stbd side. See photos #1-25 and 1-26 for other sections.</p> <p>29. 5 316 0158 74 #1-28 DCAN, Brest, France. "Sea Bottom Exploration Vehicle, PAP 104," Stbd side view. See photos #1-29, 1-30, and the encl (22) for further data.</p> <p>30. 5 316 0158 74 #1-29 DCAN, Brest, France. "SEA BOTTOM EXPLORATION VEHICLE, PAP 104," Stern view. See photos #1-28, 1-30 which have additional views. Encl (22) has details.</p> <p>31. 5 316 0158 74 #1-30 DCAN, Brest, France. "SEA BOTTOM EXPLORATION VEHICLE, PAP 104," Bow view. See photos #1-28 and 1-29 for other views and encl (55) for data.</p> <p>32. 5 316 0158 74 #1-31 Hungarian Shipyards, Budapest, Hung. Model of 2300 DWT Inlandwaterway tanker. Stbd forward quarter.</p> <p>33. 5 316 0158 74 #1-32 Hungarian Shipyards, Budapest, Hung. Model of Self-propelled Pusher Barge Unit Type "EUROPE." Stbd. side.</p> <p>34. 5 316 0158 74 #3-24 Placard for FENZY(STE) place de Villiers, Montreuil, France TRITON lifting apparatus for underwater salvage and work. See photos #3-25 for details.</p> <p>35. 5 316 0158 74 #3-25 FENZY(STE), place de Villiers, Montreuil, France TRITON lifting apparatus. See placard details in photo #3-24.</p>			

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36. 5 316 0158 74 #3-26
 NO GOOD! NOT USABLE!

37. 5 316 0158 74 #3-27
 Baudoin Moteurs(STE), blvd. de
 Pont-de-Vivaux, Marseille,
 France diesel 430 cv at 1800 rpm.

38. 5 316 0158 74 #3-28
 Baudoin Moteurs(STE), blvd. de
 Pont-de-Vivaux, Marseille, France
 diesel DF 12 275 cv at 3000 rpm.

39. 5 316 0158 74 #3-29
 Port of Bordeaux, France exhibit.
 Placard showing data for dredge
 FRANCOIS LEVEQUE. See photos
 #2-28, 2-30, 2-31, 3-0 thru 3-6.

40. 5 316 0158 74 #3-30
 GROSSOL(STE), rue Chaptal,
 Levallois-Perret, France. Placard
 for GROSSOL Diesel motor-generator
 set, this is driving.

41. 5 316 0158 74 #3-31.
 GROSSOL(STE), rue Chaptal, Levallois-
 Perret, France. ROYAUD diesel V12 at
 550hp driving an A12150 generator. See
 placard data on photo #3-30.

42. 5 316 0158 74 #3-32
 GROSSOL(STE), rue Chaptal,
 Levallois-Perret, France. Diesel
 motor AGO G6LS, 850-1000 hp.

43. 5 316 0158 74 #3-33
 Thompson-CSF, rue de Courcelles,
 Paris, France. Patented buoy for
 underwater work.

44. 5 316 0158 74 #3-34
 Compagnie Radio Maritime, Rue
 Lavoisier, Paris, France, shipboard
 transmitter and receiver unit.

45. 5 316 0158 74 #3-35
 Soc. Nationale des Poudres et
 Explosifs, quai Henry IV, Paris,
 France. Display of explosives avail-
 able for underwater use.

46. 5 316 0158 74 #3-36
 Soc. Nationale des Poudres et Explosifs,
 Quai Henry IV, Paris, France.
 Pyrotechnics devices displayed at
 exhibition.

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